

FACULTY PROFILE



NAME: DR. PRAMOD KUMAR MAHISH

DESIGNATION: Asst. Professor of Biotechnology

DEPARTMENT: Biotechnology

Institution: Govt. Digvijay Autonomous PG College
Rajnandgaon

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OVERVIEW:

Degree	Subject/Title for PhD	Year	From (University)
Graduation	Microbiology	2005	CMD PG College, affiliated with Gurughasidas University Bilaspur
Post-Graduation	Medical Biotechnology	2007	Pt. J. N. M. Medical College Raipur
M.Phil.	Biotechnology	2009	Pt. Ravishankar Shukla University Raipur
Ph.D.	Biotechnology	2014	Pt. Ravishankar Shukla University Raipur

AWARDS: UGC National Fellowship to pursue Ph.D. degree. Letter No. F.14-2/2010/(SA-III)

COURSES TAUGHT: B.Sc. (3yr Program), B.Sc. 4 Year NEP (CBCS/LOCF), M.Sc. Biotechnology and Ph.D. in Biotechnology

ADDITIONAL RESPONSIBILITIES:

1. **Chairman, BOS, Biotechnology, Hemchand Yadav Vishwavidyalay Durg (Chhattisgarh)**
2. **Member, Central BOS, Biotechnology**

PUBLISHED PAPERS:

1. **Pramod Kumar Mahish**, Ujjwala fule, Madhulika Pandaw and Arpita Rakshit. 2022. The use of Medicinal plant extract in Hand sanitizer and Spray to combat against Covid-19. *Biosciences Biotechnology Research Asia*, 19(1)
2. Shriram Kunjam, Shweta Singh Chauhan, Ravishankar Chauhan, **Pramod Kumar Mahish**, Shailesh Kumar. Addition of *Butea monosperma* var. *Lutea* (Fabaceae) in the flora of district Rajnandgaon, Chhattisgarh, India. *International Journal of Botany Studies*, 6,3:394-397.
3. Shailesh Kumar Jadhav, **Pramod Kumar Mahish**. Biosorption of Lead from Aqueous Solution using a New Fungal strain *Cunninghamella elegans* TUFC 20022. 2020, *Research Journal of Biotechnology*, 15,12:35-42.
4. Garima Madhariya and **Pramod Kumar Mahish**. Modeling of vertical and horizontal subsurface flow constructed wetlands: A review. *International Journal of Ecology and Environmental Sciences*. 2020. 2;4: 484-490
5. Shweta Singh Chauhan, **Pramod Kumar Mahish**. Flavonoids of the flame of forest- *Butea monosperma*. *Research J. Pharm. and Tech.* 2020; 13(11):5647-5653. doi: 10.5958/0974-360X.2020.00984.1
6. **Pramod Kumar Mahish**, KL Tiwari, SK Jadhav. 2019. Lead Toxicity, Measurement and Control. *NewBioWorld*, 1(2) 1-8.
7. **Pramod Kumar Mahish**, K. L. Tiwari and S. K. Jadhav. 2018. Biosorption of Lead by Biomass of Resistant *Penicillium oxalicum* isolated from Industrial Effluent. *Journal of Applied Sciences*, 18(1): 41-47.
8. Shikha Shrivastava, **Pramod Kumar Mahish** and Anjali Ghritlahare, 2018. Effect of Industrial Fly Ash on the Growth of Some Crop Field Soil Fungi Adapted with Ash Content, *International Journal of Agriculture, Environment and Biotechnology*, 11(1): 203-207. DOI: 10.30954/0974-1712.2018.00178.26
9. **Pramod Kumar Mahish** and Anjali Ghritlahare, 2017. Pathogenicity of *Phoma Chrysanthemicola* to *Chrysanthemum* Plants (Asteraceae Family) and Control of Pathogen by Chemical and Biological Approach, *Biosciences Biotechnology Research Asia*, 14(3): 1191-1200.
10. **Pramod Kumar Mahish**, 2017. Water Audit: A Case Study of Govt. Digvijay Autonomous Post Graduate College Rajnandgaon, Chhattisgarh, *Indian J. Sci. Res.* 13 (2): 79-81.

11. **Pramod Kumar Mahish**, Raju Mahobia and Jitendra Yadav, 2016. Use and Awareness of Herbal Medicines Among Literate Population. *International Journal of Pharma and Bio Sciences*, 7(4): 174 – 178.
12. **Pramod Kumar Mahish**, 2015. Physico-Chemical Assessment of Pond Water, Municipal Sewage and Industrial Effluent of Rajnandgaon (Chhattisgarh), India. *International Journal of Science, Environment and Technology*, 4 (6): 1549 – 1557.
13. **Pramod Kumar Mahish**, 2015. Traditional Fish Processing and Economic Status of Fishermen of Central India with Special reference to Rajnandgaon, Chhattisgarh, India. *International Research Journal of Biological Sciences*, 4(9), 33-42.
14. **Pramod Kumar Mahish**, K.L. Tiwari and S.K. Jadhav, 2015. Biodiversity of Fungi from Lead Contaminated Industrial Waste Water and Tolerance of Lead Metal Ion by Dominant Fungi. *Research Journal of Environmental Sciences* 9 (4): 159-168 (DOI: 10.3923/rjes.2015.159.168)
15. **Pramod Kumar Mahish**. 2014. Cellulolytic Potentiality of Some Microorganisms (A case Study of Rajnandgaon Paper Mill Effluent), *Research Front*, 4 (63-66).
16. **Pramod K. MAHISH**, Kishan L. TIWARI and Shailesh K. JADHAV. 2014. Physiochemical and Microbial Studies of Paper Mill Effluent, Raipur (Chhattisgarh) India. *Banat's Journal of Biotechnology*, 5 (9): 57-62 (DOI: 10.7904/2068-4738-V(9)-57)
17. **Pramod Kumar Mahish**, K. L. Tiwari and S. K. Jadhav. 2013. Tolerance of Lead by Some Fungal species Isolated From Industrial Waste Water. *DCSI*, 9 (2): 229-232.
18. Tiwari K. L., Jadhav S. K. and **Mahish P. K.** 2010. Effect of Xenobiotics on against some fungal Species. *Deccan Current Science*, 3 (1) p. 1-12.

BOOKS

Title of Book	Author/s Editor/s	Publisher	Year	ISBN
Under Progress				
Heavy Metals: Global Pollution Updates and Recent Management Strategies	Dakeshwar Kumar Verma, Chandrabhan Verma and Pramod Kumar Mahish	American Chemical Society (ACS) USA	2023	Under progress
Biosorbents: Diversity, Bioprocessing and Applications	Pramod Kumar Mahish, Dakeshwar Kumar Verma and Shailesh Kumar Jadhav	Taylor & Francis Group, LLC, USA	2023	Under Progress 978-1-03-239974-4
Published				
Phytochemicals in Medicinal Plants: Biodiversity, Bioactivity and Drug Discovery	Charu Arora, Dakeshwar Kumar Verma, Jeenat Aslam, Pramod Kumar Mahish	Walter de Gruyter GmbH, Genthiner Str. 13, 10785 Berlin, Germany	2023	978-3-11-079176-1

Essential Oils: Sources, Production and Applications	Rajendra Chandra Padalia, Dakeshwar Kumar Verma, Charu Arora, Pramod Kumar Mahish	Walter de Gruyter GmbH, Genthiner Str. 13, 10785 Berlin, Germany	2023	978-3-11-079159-4
Role of Applied Sciences in Social Implications Volume A: Chemical Science	Gokul Ram Nishad, Dakeshwar Kumar Verma, Pramod Kumar Mahish , Suresh Kumar Patel and Hemant Kumar Saw	ProbeCell Press, India	Feb. 2023	978-81-956770-8-5
Role of Applied Sciences in Social Implications Volume B: Earth, Environment & Energy	Gokul Ram Nishad, Suresh Kumar Patel, Dakeshwar Kumar Verma, Pramod Kumar Mahish , Hemant Kumar Saw	ProbeCell Press, India	Feb. 2023	978-81-956770-9-2
Role of Applied Sciences in Social Implications Volume C: Life Science	Pramod Kumar Mahish , Dakeshwar Kumar Verma, Suresh Kumar Patel, Hemant Kumar Saw, Kaushal K. Sahu	ProbeCell Press, India	Feb. 2023	978-81-959977-1-8
Role of Applied Sciences in Social Implications Volume D: Mathematics and Computer Science	Hemant Saw, Kavita Sakure, Suresh K. Patel, Pramod Kumar Mahish , Dakeshwar K. Verma, Raju Khuthey	ProbeCell Press, India	Feb. 2023	78-81-959977-0-1
Role of Applied Sciences in Social Implications Volume E: Physics & Electronics	Suresh K Patel, Hemant Saw Pramod Kumar Mahish Dakeshwar K. Verma Ashutosh Patel	ProbeCell Press, India	Feb. 2023	978-81-959977-2-5
प्रयोगात्मक जैवप्रोद्योगिकी एवं सूक्ष्मजीवविज्ञान	S. K. Jadhav and Pramod Kumar Mahish	Chhattisgarh Rajya Hindi Granth Acadmi	2018	978-93-82313-45-8
Pathogenicity of <i>Phoma Chrysanthemicola</i> to <i>Chrysanthemum</i>	Pramod Kumar Mahish	Lambert Academic Publishing	2018	978-613-4-98541-3

BOOK CHAPTERS

1. Tarun Kumar Patle, **Pramod Kumar Mahish** and Ravishankar Chauhan. Chapter 4. Plants alkaloids and flavonoids: biosynthesis, classification, and medicinal. In Phytochemicals in Medicinal Plants Biodiversity, Bioactivity and Drug Discovery. 2023. DeGruyter ISBN 978-3-11-079176-1
2. Shweta Singh Chauhan, Ravishankar Chauhan, Nagendra Kumar Chandrawanshi and **Pramod Kumar Mahish**. Chapter 14. Bioactivity of nanoparticles synthesized from medicinal plants. In Phytochemicals in Medicinal Plants Biodiversity, Bioactivity and Drug Discovery. 2023. DeGruyter ISBN 978-3-11-079176-1
3. Shivendra Singh Dewhare, Nagendra Kumar Chandrawanshi, Shekhar Verma, Sonam Soni and **Pramod Kumar Mahish**. **Chapter 6:** Extraction, production, and encapsulation of essential oils. In Essential Oils: Sources, Production and Applications. 2023. DeGruyter ISBN 978-3-11-079159-4.
4. Nagendra Kumar Chandrawanshi, Deepali, Anjali Kosre, Shivendra Singh Dewhare, Shekhar Verma, **Pramod Kumar Mahish** and Ashish Kumar. **Chapter 7:** Bioactivity of essential oils – anticancer, anti-HIV, antiparasitic, anti-inflammatory, and other activities. In Essential Oils: Sources, Production and Applications. 2023. DeGruyter ISBN 978-3-11-079159-4.
5. Deepali Koreti, Anjali Kosre, **Pramod Kumar Mahish**, Nagendra Kumar Chandrawanshi and Shri Ram Kunjam. **Chapter 11:** Application of essential oils in alternative medicine. In Essential Oils: Sources, Production and Applications. 2023. DeGruyter ISBN 978-3-11-079159-4.
6. Tarun Kumar Patle, **Pramod Kumar Mahish** and Ravishankar Chauhan. **Chapter 4:** Plants Alkaloids & Flavonoids: Biosynthesis, Classification, and Medicinal Uses. In Phytochemicals in Medicinal Plants Biodiversity, Bioactivity and Drug Discovery. 2023. DeGruyter ISBN 978-3-11-079176-1.
7. Shweta Singh, Ravishankar Chauhan, Nagendra Kumar Chandrawanshi and **Pramod Kumar Mahish**. **Chapter 14:** Bioactivity of Nanoparticles Synthesized from Medicinal Plants. 2023. DeGruyter ISBN 978-3-11-079176-1.
8. Varsha Meshram, Khemraj Sahu, Anjali Kosre, Deepali Koreti, **Pramod Kumar Mahish** and Nagendra Kumar Chandrawanshi. **Chapter 2:** Mushroom Biosorbent. In Biosorbents: Diversity, Bioprocessing and Applications. 2023. Taylor & Francis Group, LLC, USA ISBN 978-1-03-239974-4
9. **Pramod Kumar Mahish**, Shailesh Kumar Jadhav. **Chapter 7:** Pretreatment of Aspergillus Mycelium for the Enhancement of Lead Biosorption. In Biosorbents: Diversity, Bioprocessing and Applications. 2023. Taylor & Francis Group, LLC, USA ISBN 978-1-03-239974-4

10. Anjali Kosre, Khemraj Sahu, Varsha Meshram, Deepali Koreti, **Pramod Kumar Mahish** and Nagendra Kumar Chandrawanshi. **Chapter 8:** Pretreatment of Spent mushroom substrate for the enhancement of Biosorption capacity. In *Biosorbents: Diversity, Bioprocessing and Applications*. 2023. Taylor & Francis Group, LLC, USA ISBN 978-1-03-239974-4
11. Tarun Kumar Patle, Ravishankar Chauhan, Alka Patle, **Pramod Kumar Mahish**. **Chapter 9:** Aqueous Removal of Heavy Metals using Biosorbents. In *Biosorbents: Diversity, Bioprocessing and Applications*. 2023. Taylor & Francis Group, LLC, USA ISBN 978-1-03-239974-4
12. Madhariya Garima, Chauhan Ravishankar, Diwan Shubha, Chandrawanshi Narendra Kumar, **Pramod Kumar Mahish**. Current Applications of Biomolecules in Biotechnology. In *Handbook of Biomolecules: Fundamentals, Properties and Applications*. 2022. Elsevier. ISBN 9780323916844
13. Nagendra Kumar Chandrawanshi, Deepali Koreti, Anjali Kosre, **Pramod Kumar Mahish**. Mushroom-Derived Bioactive-Based Nanoemulsion: Current Status and Challenges for Cancer Therapy. In *Handbook of Research on Nanoemulsion Applications in Agriculture, Food, Health, and Biomedical Sciences*. 2022. IGI Global USA. DOI: 10.4018/978-1-7998-8378-4.ch016
14. **Pramod Kumar Mahish**, Shweta Singh, Ravishankar Chauhan. Bioactive Secondary Metabolites from Endophytic *Phoma* spp. In *Phoma: Diversity, Taxonomy, Bioactivities, and Nanotechnology*. 2022. Springer, Cham. DOI: 10.1007/978-3-030-81218-8_11
15. Sudakshina Tiwari, Deepali, Anjali Kosre, **Pramod Kumar Mahish**, S.K. Jadhav, Nagendra Kumar Chandrawanshi. Fungal Microbial Fuel Cells, an opportunity for energy sources: Current Perspective and future challenges. In *Energy: Crises, Challenges and Solutions*. 2021. Wiley-Blackwell (ISBN: 978-1-119-74144-2)
16. **Pramod Kumar Mahish**, Nagendra Kumar Chandrawanshi, Shriram Kunjam, S. K. Jadhav. Opportunities in the Living Lights: Special reference to Bioluminescent Fungi. In *Energy: Crises, Challenges and Solutions*. 2021. Wiley-Blackwell (ISBN: 978-1-119-74144-2)
17. Anjali Kosre, Deepali, **Pramod Kumar Mahish**, Nagendra Kumar Chandrawanshi. Current Perspective of Sustainable Utilization of Agro-Waste and Biotransformation of Energy in Mushroom. In *Energy: Crises, Challenges and Solutions*. 2021. Wiley-Blackwell (ISBN: 978-1-119-74144-2)
18. Tiwari K. L., Jadhav S. K. and **Mahish Pramod Kumar**, 2014. Tolerance of Heavy Metals by *Cunninghamella elegans* TUFC 20022 isolated from industrial waste water of Raipur city, Chhattisgarh, India. *Biotechnology and Traditional Knowledge*, Chapter 28, Page 235-240.

PROJECTS (COMPLETED AND ONGOING):

S. No.	Title	Duration	Funding Agency	Status	Cost
1	Chemical and Biological approach for Control of <i>Phoma chrysanthemicola</i> : A Pathogen of <i>Chrysanthemum</i> genus (<i>Asteraceae</i> Family)	1 Yr	Autonomous, Govt. Digvijay College RJN	Completed (2014-15)	0.5 Lakh
2	Determination of Water pollution and Microorganisms from Industrial Effluent of Rajnandgaon (Chhattisgarh), India	2 Yr	UGC, Central Regional Office, Bhopal	Completed (2015-16)	3.30 Lakh
3	Bioactivity of Silver Nano Particle from Rare Yellow Butea Monosperma	1Yr	Autonomous, Govt. Digvijay College RJN	Completed (2020-21)	0.5 Lakh
4	Assessment of some multi drug resistance bacteria from different environmental source: An experimental analysis during Covid-19 Era	1 Yr	Autonomous, Govt. Digvijay College RJN	Ongoing	0.5 Lakh

PHD GUIDANCE:

S. No.	Name of Ph.D. Scholar	Registration	Ph.D. Title	Status
1	Shweta Singh	No.317/DSW/ Ph.D. Cell/2021 23-10-2018	BIOCHEMICAL, MICROBIAL AND GENETIC CORRELATION BETWEEN TWO VARIANTS OF BUTEA MONOSPERMA (COMMON RED AND RARE YELLOW)	Progress of Six-monthly course
2	Garima Madhariya	No.319/DSW/ Ph.D. Cell/2021 23-10-2018	CONSTRUCTED WETLAND MODEL USING MACROPHYTES AND IMMOBILIZED MICROORGANISM FOR THE IMPROVEMENT OF WATER QUALITY	Progress of Six-monthly course

OTHER ACHIEVEMENTS:

1. Fellow member – World Researchers Association, Indore, India. WRA/FM/2018/007
2. Life Member – Microbiologists Society, India. MS/IM/679
3. Associate Editor – Indian Journal of Aerobiology (An UGC CARE Journal) ISSN 0971-1546
4. Guest Speaker, Yuvvani and Vigyan Varta Program, All India Radio Raipur.

LINK OF YOUTUBE

CHANNEL: https://www.youtube.com/@dr_pramodkumarmahish9982/videos

ACADEMIC WEBPAGE

Google Scholar -

<https://scholar.google.co.in/citations?user=cmuDpSMAAAJ&hl=en>

ResearchGate -

<https://www.researchgate.net/profile/Pramod-Mahish-2>

Livedna -

<https://livedna.net/?dna=91.8226>

OrchID -

<https://orcid.org/0000-0002-5343-2347>

SEMINAR CONFERENCES CHAIRED:

1. Conference title - 22nd National Conference on Aerobiology; Organized by - Indian Aerobiology Society, Narayanrao Waghmare Mahavidyalaya, Akhada Balapur (MH) and Swami Ramanand Teerath Marathwada University Nanded (MH); Chaired Date - 22/12/22; Chaired Session - Invited Talk, Session 3, 09:30 to 10:30 Hr.
2. Conference title - Innovation and Emerging Novel Research in Plant Sciences organized by Govt. VYT PG Science College Durg. 17-18th January 2023; Chaired date 18-01-2023; Chaired Session - Paper Presentation, 12:00 to 14:00 Hr.

Paper Presented in Seminar/conferences (no.): 14

National : 14

FDP/INDUCTION/RFRESHER COURSE ATTENDED:

(1) **Orientation Course** –Title – “Quality of Higher Education: Learning Process” Period - 4 weeks (3 to 30 June 2015) From Human Resource Development Center, PT. Ravishankar Shukla University Raipur (C.G.), Pass with “A”Grade

(2) **Special Summer School** (Equivalent to one orientation/Refresher Course) – Title – “Ethics in Higher Education: Teaching Learning and Research”, Period – 3 weeks (25th May to 09th June 2016), From Human Resource Development Center, PT. Ravishankar Shukla University Raipur (C.G.), Pass with “A”Grade

(3) **Two week FDP**(Equivalent to one Refresher Course) – Title –“Learning Advanced E tool for MOOCs Development & Research” Organized by Ramanujan College (University of Delhi) and Motilal Nehru College (University of Delhi) from 1 to 14th September 2020.

(4) **Refresher Course** – Title – “ UGC Sponsored Online Multidisciplinary Refresher Course in Life Science : Synthetic Biology” organized by UGC-HRDC, Pt. Ravishankar Shukla University Raipur (C.G.) from 14 to 28th December 2020.

(5) **Refresher Course** – Title – “Interdisciplinary Refresher Course (Online) on Environmental Studies and Disaster Management” organized by UGC-HRDC Mizoram University from 30th November to 13th December 2021.

